



SPEC® CINT2006 Result

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ASUS Computer International

(Test Sponsor: Intel Corporation)

SPECint®_rate2006 = 38.4

ASUS P5K3 motherboard (Intel Core 2 Duo E6850)

SPECint_rate_base2006 = 34.4

CPU2006 license: 13

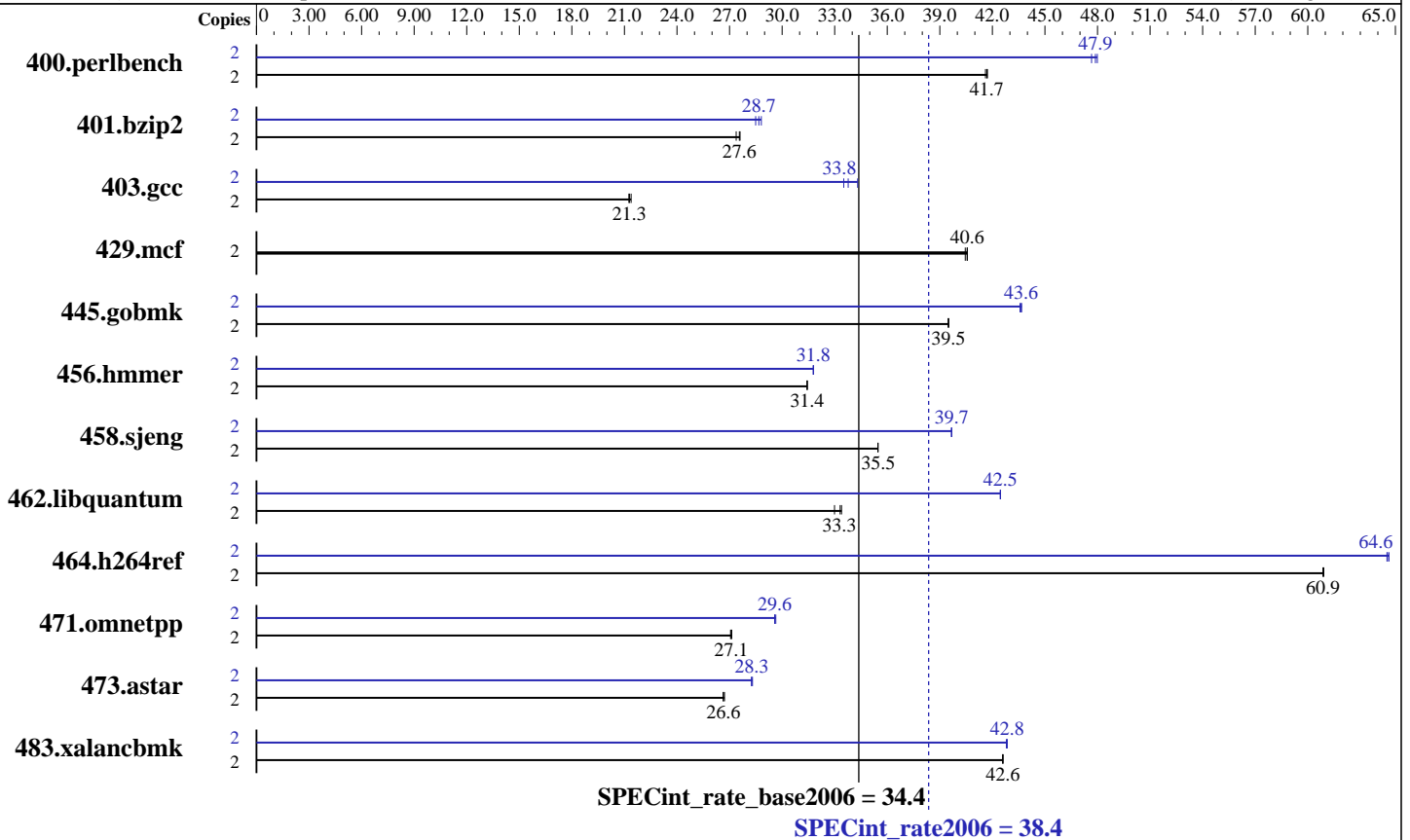
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Jul-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Core 2 Duo E6850
 CPU Characteristics: 3.00 GHz, 1333 MHz bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB ELPIDA PC3-8500U-7-00-BP DDR3-1066 7-7-7-20)
 Disk Subsystem: Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II
 Other Hardware: None

Software

Operating System: Windows Vista32 Ultimate
 Compiler: Intel C++ Compiler for IA32 version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	468	41.7	470	41.6	469	41.7	2	407	48.0	408	47.9	410	47.7
401.bzip2	2	705	27.4	699	27.6	700	27.6	2	673	28.7	677	28.5	670	28.8
403.gcc	2	757	21.3	756	21.3	753	21.4	2	469	34.3	477	33.8	480	33.5
429.mcf	2	451	40.5	450	40.6	450	40.6	2	451	40.5	450	40.6	450	40.6
445.gobmk	2	531	39.5	531	39.5	531	39.5	2	481	43.6	481	43.6	480	43.7
456.hammer	2	594	31.4	594	31.4	594	31.4	2	587	31.8	587	31.8	587	31.8
458.sjeng	2	682	35.5	682	35.5	682	35.5	2	610	39.7	610	39.7	610	39.7
462.libquantum	2	1244	33.3	1256	33.0	1241	33.4	2	976	42.4	976	42.5	976	42.5
464.h264ref	2	727	60.9	727	60.9	727	60.9	2	686	64.6	686	64.5	685	64.6
471.omnetpp	2	462	27.1	461	27.1	461	27.1	2	423	29.6	422	29.6	423	29.6
473.astar	2	526	26.7	527	26.6	527	26.6	2	496	28.3	497	28.3	497	28.3
483.xalancbmk	2	324	42.6	324	42.6	324	42.6	2	322	42.8	322	42.8	322	42.8

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
 Product description located as of 7/2007:
<http://usa.asus.com/products.aspx?l1=3&l2=11&l3=534&l4=0&model=1645&modelmenu=1>
 The system bus runs at 1333 MHz
 System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX
 Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch
 The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
 icl -Qvc7.1 -Qc99

C++ benchmarks:
 icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32



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Base Optimization Flags

C benchmarks:

`-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

C++ benchmarks:

`-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:

`icl -Qvc7.1 -Qc99`

C++ benchmarks:

`icl -Qvc7.1`

Peak Portability Flags

`403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

`400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE`

`401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE`

`403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-link /FORCE:MULTIPLE`

`429.mcf: basepeak = yes`

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Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec_div- -Qansi-alias /F512000000
-link /FORCE:MULTIPLE

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.42.xml>

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